QL BANNER
by Tim Swenson

This is a little neatsy-keen program that I originaly wrote years ago, on the ZX81.

The user types up to 10 strings of up to 80 characters each. The strings are then slowly "marched" across the screen, very much like the signs on Bart. The letters start on the right and scroll off to the left.

The screen that is used to show the banner can be fancied up a bit. Playing around with the stipple of the strips can be fun.

So, here it is. Have fun with it. It might come in handy someday.

```
100 WINDOW 512,256,0,0 : PAPER 0
: INK 4
110 DIM a$(10,80)
120 clear_data
130 set_screen2
140 get_all
150 set_screen1
160 REPeat loop
170  FOR x = 1 TO 10
180   IF LEN(a$(x)) < 2 THEN NEXT
x
190   LET length = LEN(a$(x))
200   LET start_s=1 : LET
last_s=1
210    FOR y= 1 TO LEN(a$(x))+32
220     PAUSE 10
230     LET key=KEYROW(0)
240     f_key
250     IF key<>0 THEN GO TO 160
260     LET start_at = 32-y
270     IF y>32 THEN start_at=0
280     LET x$=a$(x)&" "
290     AT 4,start_at : PRINT
x$(start_s TO last_s)
```
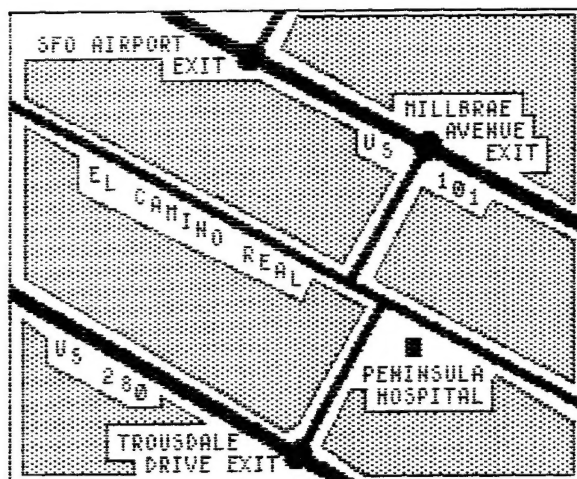
(continued on back page)

ON SUNDAY, MARCH 15, AT 1 PM, THERE WILL BE A JOINT MEETING OF ALL THREE OF THE BAY AREA T/S USER GROUPS AT THE PENINSULA HOSPITAL IN BURLINGAME (1783 EL CAMINO REAL).

AS SPECIAL ATTRACTIONS, TWO PRESENTATIONS HAVE BEEN SCHEDULED:

(1) PAT MORRISSEY WILL DEMONSTRATE HIS INTEGRATED PERIPHERAL SYSTEM FOR THE T/S 2068; AND

(2) BOB ORRFELT WILL DEMONSTRATE HIS REPLACEMENT 2068 ROM WITH BUG CORRECTIONS AND WITH ADDED NEW FEATURES.

MARK YOUR CALENDAR!!!

✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶

SIDEWAYS PRINTING

From the Jan. '87
T/S N/L in Ohio.

Eric Yruegas
4706 Langley Ave.
Whitehall, OH 43213-3124

The program will turn your character set in the 2068 sideways. If you have the 2040 printer, this program can be used to print spreadsheets sideways (allowing WIDE columns!). Someone might want to write a utility to print word-processor files sideways. You could have a margin of any number! Just tape the strips together and you have a letter.

Well, here is the program, in it's entirety:

```
2 REM TO GET CHAR. SET, TYPE POKE 23606,244:POKE 23607,250
7 DIM A$(8,8): DIM B$(8,8)
10 LET C=PEEK 23606+256*PEEK 23607+256
12 FOR J=33 TO 128
20 FOR P=0 TO 7
25 LET BYTE=PEEK (C+P+(J-32)*8)
27 LET Z$="        ":REM 8 SPACES
35 FOR L=1 TO 8
40 LET X=INT (BYTE/2):LET BIT=BYTE-2*X:LET BYTE=X:LET
Z$(LEN Z$-L+1)=STR$(BIT)
50 NEXT L:LET A$(P+1)=Z$:NEXT P
70 FOR F=1 TO 8:FOR N=1 TO 8:LET B$(N,F)=A$(9-F,N):NEXT
N:NEXT F
80 FOR P=0 TO 7
85 LET Z$=B$(P+1)
90 LET Q=128*(Z$(1)="1")+64*(Z$(2)="1")+32*(Z$(3)="1")+
16*(Z$(4)="1")+8*(Z$(5)="1")+4*(Z$(6)="1")+2*(Z$(7)="1")+
(Z$(8)=1)
100 POKE (64500+P+(J-32)*8),Q
170 NEXT P:NEXT J
```

There it is. And it works. This program is not all that fast. But guess what! I have a MACHINE CODE replacement for the above program! Actually, I cheated and used TIMACHINE on it, and it now breezes through the character set in about 1/3 the time. However, the machine code is exactly 1K (1024 bytes!), and is kind of long to print here. If you like, send me a request for the code on tape or disc (AERCO DS/DD only, please!), and I can zip it out to you. I also can make the disassembly available. Just ask!

SINCLAIR INTRODUCES NEW COMPUTER
(Here we go again)

From the San Francisco Chronicle
February 18, 1987

In England, meanwhile, the well-known inventor of the Sinclair computer introduced what he claimed was the world's smallest laptop. Sinclair said his $350 Z88 weighs less than two pounds, measures 11¼ by 8¼ inches, and has a memory capable of storing Shakespeare's complete works. It also is IBM-compatible.

From the Feb. '87
Detroit Area T/S News

2068 HEADERS

Here is a partial list of tape headers for 2068 programs. This listing may be useful to those converting cassette based software to disk.

‡Chess by Psion: Save"chess" line 10
Save "s" Code 16384,6912
Save"chess" Code 34816,10977

‡Vu-File: Save "vufile" Line 50
Save "t" Code 16384,6912
Save "c" Code 28288,7216

‡Vu-Calc: Save "vcalc" line 1
Save "vc" Code 29328,5225

‡Vu-3D: Save "vu3d" line 1
Save "vu-3d" line 9
Save "s" Code 16384,6912
Save "vu-3d" Code 30720,34815

‡Oliger Print   Save "oli" line 10
Driver   Save "prcd" Code 23296,256

‡Z-Print 80: Save "customize" line 100
Save "zprnt-lo"code 64000,1300

‡Zeus Monitor: Save "mon" line 1
Save "m" code 61186,4040

‡Zeus Assembler: Save "zeus" line 1
Save "zeus" code 57344,7936

From the Jan/Feb '87 Sinc Link.

HOW TO DISABLE THE "MERGE" FUNCTION

The simplest way to prevent anyone "merging" your program is to save your program as code. When you want to SAVE your program use the following method:

LET p=(PEEK 23637 + (256 * PEEK 23638) - 23551)
Next line : SAVE "prog name" CODE 23552,p
Next line: RUN

The only thing that changes now is that your program has to be loaded as CODE. When the program s loaded the computer's BASIC INTERPRETER will continue with the program straight after the SAVE command.

MODIFICATION

TO MULTI-TASKING Article in the February '87 issue of this newsletter.

.   It has been brought ot my attention by Bill Pederson of Grand Rapids, Michigan that the SCLD chip does indeed place a number on the bus during an interrupt. The program as shown does work, but does go through the unnecessary task of setting up a 257 byte interrupt table, when only two bytes are needed. As my notes were not clear from our late night conversation; the next day I determined that the SCLD put a 255 on the bus (I POKED the other bytes to 0). This means that only the last two bytes of the table were needed. This in turn means that any interrupt service address could be placed there, giving you much more flexibility ot where you put your service routine.

These additional recommendations are made. DO NOT use the STRMS system variables area for the vector table, it could cause operating conflicts. Bill suggested that interrupts should be disabled using BIT 6 of port 255 before initializing IM2 and changing the value of the I register. He said it is also necessary to put one NOP after the IM2 instruction and six NOP's after the LD I,A instruction; I do not know why. Be sure to enable BIT 6 of Port 255 when you are done.

Bill also recommended the last instruction should be RETI instead of JP 56. Change the last instruction to CALL 56 and then add RETI. This is the proper Z80 requirement which notifies the interrupting device that the interrupt request has been serviced. It also resets the interrupt flip-flops.

I would like to hear from all of you who attempted and/or succeeded at using IM2. If anyone sends me a SASE I'll send an assembly code listing of the CLOCK/CALENDAR routine that the February listing CALLed. I would like to know what tasks you are having it run. Windows? Error condition checking? ? ? Send me a listing, please.   FRED TEMPLETON
520 Northbrook Ct.
Antioch, CA 94509

SOME QL TIPS

I am a member of the QZX ham radio Timex-Sinclair net and newsletter. I learned about Timelinez "on the air" from two of our members in the Bay Area. I think Dar Thompson attends some of the meetings of one of the groups. We both have all the Sinclair computers through the QL in mutliples. The QL is a very interesting computer and will be fun to learn.

Here are some POKES for it that were sent to me by my friend that runs a French language TSUG in Montreal. So credit Real Gagnon for these QL pokes if you want to publish them:

```
POKE_W 163976,255
POKE_W 163976,0
POKE   163891,1
POKE   98403,2      Caps ON
POKE   98403,0      Caps OFF
POKE   98403,64     Freeze the screen
POKE   98403,8      Blank the screen
                    Un-blank the screen
                    Try it!
                    Try it!
```

To disable BREAK use POKE_L 163900,0

I had mentioned to him the article in the latest ZX COMPUTING MONTHLY on the undocumented WHEN ERROR command and he came back with:

Beware of WHEN ERROR....END WHEN as it is BUGged. The error flag is never reset.

To use it safely, you must have the QJUMP SUPER TOOLKIT II eprom. However it't a good idea to use the command like this:

```
10 REMark TIPS for the QL
20 WHEN ERRor : REPORT : EDIT ERLIN : STOP : END WHEN
```

When you write a program and you make a mistake, the BAD LINE will be ready to be EDITed.

75
DA Howard
WB6QV

750 North Valeton Avenue
West Covina, CA 91790

MAILING LABELMAKER
. by Walt Gaby

THIS PROGRAM PRINTS MAILING LABELS
ON A FULL-SIZE PRINTER.   THE MENU
OFFERS FOUR OPTIONS:

> * SUPPLY OF RETURN LABELS
>
> * LABELS FOR ALL NAMES
>   IN ADDRESS BOOK
>
> * LABELS FOR SELECTED NAMES
>   IN ADDRESS BOOK
>
> * LABELS FOR ADDRESS DATA
>   PROVIDED BY INPUT

THE PROGRAM ASSUMES USE OF STANDARD
3 1/2" x 15/16" LABELS.

THE MENU ALSO ALLOWS FOR THE SELEC-
TION OF FOUR FONTS:

> * REGULAR (DEFAULT)
> * ENLARGED
> * CONDENSED
> * COMBINED ENLRGD/CONDNSD

IN ADDITION, DOUBLESTRIKE MODE IS
AVAILABLE WHEN USING AN OLD RIBBON.

THE "ADDRESS BOOK" IS KEPT IN DATA
LINES.   OTHER FIELDS CAN BE ADDED
TO EACH DATA LINE TO MAINTAIN AN
EXTENDED "RECORD" ON EACH PERSON
...SUCH AS TELEPHONE NUMBERS AND
IMPORTANT DATES.

SELECTING "ALL MAILING LABELS" WITH
REGULAR PAPER IN THE PRINTER WILL
PROVIDE THE USER WITH A HARDCOPY OF
ALL ADDRESSES.   ADDING "REM" TO
LINE 830 AND REMOVING IT FROM LINE
835 WILL GENERATE A HARDCOPY OF ALL
DATA FOR ALL RECORDS.

SIMILARLY, BY ADDING "REM" TO LINE
. 970 AND REMOVING IT FROM LINE 975,
A HARDCOPY OF THE ENTIRE FILE CAN BE
PRINTED ON REGULAR PAPER FOR SELEC-
TED NAMES AND ADDRESSES.

OF COURSE, THE CODE NUMBERS USED IN
LINES 110 THROUGH 610 MUST BE IN
CONFORMITY WITH THE RELEVANT CODE
NUMBERS EXPECTED BY YOUR PRINTER FOR
THE FONTS DESIRED.

```
   10 REM **********************
   12 REM * LABELMAKER PROGRAM *
   14 REM * Walt Gaby, TSUNAMI *
   16 REM *    December, 1986   *
   18 REM **********************
   20 REM
   30 CLS : RESTORE
   32 PRINT "###################
###########"
   34 PRINT "  L A B E L M A K E
R   M E N U"
   36 PRINT "###################
###########"''
   38 PRINT "INITIALIZE FONT"
   40 PRINT "================"
   42 PRINT " 1 ENLARGED LETTERIN
G ON"
   44 PRINT " 2 ENLARGED LETTERIN
G OFF"
   46 PRINT " 3 CONDENSED LETTERI
NG ON"
   48 PRINT " 4 CONDENSED LETTERI
NG OFF"
   50 PRINT " 5 DOUBLESTRIKE MODE
 ON"
   52 PRINT " 6 DOUBLESTRIKE MODE
 OFF"''
   54 PRINT "SELECT PRINTING CHOI
CE"
   56 PRINT "====================
=="
   58 PRINT " 7 PRINT SUPPLY OF R
ETURN LABELS"
   60 PRINT " 8 PRINT ALL MAILING
 LABELS"
   62 PRINT " 9 PRINT SELECTED MA
ILING LABELS"
   64 PRINT "10 PRINT LABELS FROM
 INPUT"''
   66 PRINT "###################
###########"
   68 INPUT "ENTER NUMBER: ";X
   70 IF X<1 OR X>10 THEN  GO TO
68
   90 GO TO X*100
   99 REM
```

```
100 REM ** ENLARGED LTTRNG ON
105 REM      ####################
110 LPRINT   CHR$ 27: CHR$ 27: C
HR$ 87: CHR$ 27: CHR$ 1: CLS : G
O TO 30
199 REM
200 REM ** ENLARGED LTTRNG OFF
205 REM      ####################
210 LPRINT   CHR$ 27: CHR$ 27: C
HR$ 87: CHR$ 27: CHR$ O: CLS : G
O TO 30
299 REM
300 REM ** CONDENSED LTTRNG ON
305 REM      ####################
310 LPRINT   CHR$ 27: CHR$ 15: C
LS : GO TO 30
399 REM
400 REM ** CONDENSED LTTRNG OFF
405 REM      ####################
410 LPRINT   CHR$ 27: CHR$ 18: C
LS : GO TO 30
499 REM
500 REM ** DOUBLSTRIKE MODE ON
505 REM      ####################
510 LPRINT   CHR$ 27: CHR$ 27: C
HR$ 71: CLS : GO TO 30
599 REM
600 REM ** DOUBLSTRIKE MODE OFF
605 REM      ####################
610 LPRINT   CHR$ 27: CHR$ 27: C
HR$ 72: CLS : GO TO 30
699 REM
700 REM ** RETURN ADDRESS LABEL
705 REM      ####################
710 CLS
720 INPUT "NUMBER OF LABELS? ";
N
730 FOR Z=1 TO N
740 LPRINT "(Your Name)"
750 LPRINT "(Your Street Addres
s)"
760 LPRINT "(Your City and ZIP)
"
770 LPRINT ' ' '
780 NEXT Z
790 GO TO 30
799 REM
800 REM ** PRINT ALL LABELS
805 REM      ################
810 READ A$,B$,C$,D$,E$
820 IF A$="END" THEN  GO TO 30
830 LPRINT A$'B$'C$' ' ' '
835 REM  LPRINT A$'B$'C$' 'D$'E$
' ' ' '
840 GO TO 810
899 REM
```

```
900 REM * PRINT SELECTED LABELS
905 REM * ####################
910 READ A$,B$,C$,D$,E$
920 IF A$="END" THEN  GO TO 30
930 CLS
940 PRINT A$'B$'C$' 'D$'E$
945 PRINT  AT 10,3:"ENTER ""X""
TO RETURN TO MENU"
950 INPUT "PRINT LABEL FOR THIS
NAME? ";Y$
955 IF Y$="X" OR Y$="x" THEN  G
O TO 30
960 IF Y$="N" OR Y$="n" THEN  G
O TO 910
970 LPRINT A$'B$'C$' ' ' '
975 REM  LPRINT A$'B$'C$' 'D$'E$
' ' ' '
980 GO TO 910
999 REM
1000 REM ** NAMES FROM INPUT
1005 REM      ################
1010 CLS : PRINT "ENTER ADDRESS
DATA BELOW"
1015 PRINT  AT 10,3:"ENTER ""X""
TO RETURN TO MENU"
1020 INPUT "NAME? ";A$
1030 IF A$="X" OR A$="x" THEN  G
O TO 30
1040 INPUT "STREET ADDRESS? ";B$
1050 INPUT "CITY and ZIP? ";C$
1060 LPRINT A$'B$'C$' ' ' '
1070 GO TO 1020
1099 REM
2000 REM ** NAME/ADDRESS DATA
2005 REM      ################
2010 DATA "JOHN DOE","123 FOURTH
STREET","FRESNO, CALIF 94666","
WORK: (818) 123-4567","HOME: (81
8) 765-4321
   (WIFE'S NAME IS JANE)"
2020 DATA "JOE SMITH","456 FIFTH
STREET","EL PASO, TEXAS 87654",
"WORK: (333) 234-5678","HOME: (3
33) 876-5432"
2030 DATA "MARY JONES","789 MAIN
STREET","SAN FRANCISCO, CALIF 9
4111","WORK: 345-6789","HOME: 98
7-6543 (CALL AFTER 8 PM)"
2998 DATA "END","END","END","END
","END"
2999 REM *** USE DATA STATEMENTS
FOR ALL ADDRESSES THAT YOU WISH
TO STORE IN THE PROGRAM ***
```

SVSTUG NEWS
by Bill Miller

1. Upcoming meetings:
1.1 Every Saturday morning, 9:00 A.M.; Stanford University,
    Jordan Hall (in the Quadrangle), Math building (Number 380)
    in room 380C (downstairs). For topic, check the PDSE
    (Public Domain Software Exchange) BBS in Sunnyvale at
    408 735-7390, 300/1200, 8, N, 1, 24HRS, 32 lines (no
    waiting!).
    Dave Jones reports the PDSE BBS in San Mateo is available
    now at 415 571-6911, 300/1200, 8, N, 1, 24HRS, 8 lines
    (hardly any waiting!).
    Lets get registered on these BBS's so we can have TS SIG's
    on them. All we need is 10 registered users for each SIG!
1.2 March 15, Sunday, 1:00 P.M., Peninsula Hospital, Burlingame
    (at the corner of El Camino and Trousdale), Sierra meeting
    room (in basement).
1.3 April 19, Sunday, 1:00 P.M., Peninsula Hospital.
1.4 May 17, Sunday, 1:00 P.M., Peninsula Hospital.
2. GUTS/SV meeting news of 870127 (Thanks to Natalie Wahl).
    The meeting was well attended. Topics covered (thanks to Sy
    Stein for suggesting a little orgainization for our usually
    disorgainized meetings) were: 1. Schedule, 2. Topics,
    3. Video, 4. SincLink, 5. TS2040 needed, and 6. New meeting
    places.
2.1 To encourage attendance at future meetings, we thought it
    might be a good idea to schedule themes (or 'Topics') for
    our future meetings, therefore:
2.2 Future proposed topics are:
2.2.1 March-
2.2.1.1 Bob Orrfelt on Video Mode Corrections and Using the
        cartridge port with advanced video modes.
2.2.1.2 Pat Morrissey on various hardware projects.
2.2.2 April- TS1000/ Aerco Disk demo by Terry Greenlee. This
      might be a good opportunity for everyone to demo various
      TS mass storage devices. Clark Cawkins is rumored to have
      written a 'CP/M like' operating system for the A&J/
      TS1000 Microdrive. If you're interested leave Clark a
      message on the PDSE BBS c/o Bob Howell or contact Bill
      Miller.
2.2.3 May- Steve Nichols volunteered to demo his software for
      the TS1000. Maybe we could turn this into a general
      software demo meeting. If you have a favorite program,
      plan on bringing it to demo.
2.2.4 June- Sy Stein volunteered to demo his TS1000/ control
      project. If you have a TS control project of your own,
      plan to bring it to demo.
2.3 Video- We plan to video tape these meetings. Thanks to Walt
    Johnson and Don Moser for volunteering thier services for
    the video taping. The object is to tape short demo segments
    of the meeting for the purpose of:
2.3.1 Meeting Records (minutes).
2.3.2 Provide to TS Computerfests (such as the 2nd annual
      Midwest) for showing at the Computerfest.
2.3.3 Video Tape exchange with other clubs. It will be sort of
      like the newsletter exchange, only with color and sound.
2.4 SincLink- This is the first issue of SincLink (separate
    from TIMELINEZ) since July 1985. Some new members have
    probably never seen it. SincLink is the name of the
    original publication of GUTS/SV which was first published
    in April, 1982. Back issues of TIMELINEZ/ Sinclink are
    available. Contact Bill Miller for Index and details.
2.5 Sy Stein is looking for a TS2040 printer cheap. Even less
    than $37.48. Knighted Computers seems to have the record
    for low priced TS2040's. Can anybody beat $37.48? As
    Vancouver Sinclair Users Group President Ken Abramson says
    'We don't just talk cheap, we are cheap'!
2.6 New meeting places- GUTS/SV is still looking for a permanent
    meeting place of it's own for the last Wednesday of the
    month:
2.6.1 Oliver Chaplin investigated the San Jose Library. It costs
      $15 and the parking is a little limited. We have ruled it
      out for now, but we will keep it in mind. Thanks to
      Oliver for checking it out.
2.6.2 Sy Stein suggested the Foothill College Electronics
      Museum. Sy will report back on it's availability.
2.6.3 Terry Greenlee suggested a church he is aquainted with in
      Alviso. Terry will check into it's availability.
2.6.4 Ron Hruby called on 870202 to report the possible
      availability of rooms in Lockheed buildings 157 or 583.
      Ron will check into it and report back.
3. Welcome to new member Cleopatra Rosioreanu in New York. Cleo
   subscribes for her 14 year old son Alexandru who has a
   TS2068 in Romania. Cleo forwards the newsletter to him.
   Maybe Alexandru will write us a report on TS user groups in
   Romania.

EBZUG NEWS
by Fred Templeton

REPORT ON MEETING OF FEBRUARY 26, 1987

The meeting was attended by 15 stalwart
"Sir Clive" fans as follows: Russ
English, Warren Tucker, Darwin Thompson,
Woody McPheeters, Ivor Alma, Bill Miller,
John Ezike, Matt Moore, Kevin Zimmerman,
Bill Strick, David Gray, Alvin Lam, Kirk
Adams, Fred Templeton, and Bob Woodic.

Discussion picked up where it left off
last month regarding our meeting room.
Bill Miller was contacted by the librarian
and after thier meeting it seems that we
may be able to use the library for a
meeting on April 16th (third Thursday
night in April). Woody McPheeters is
submitting a formal application.
Hopefully this will be confirmed by the
March meeting. John Ezike has done a lot
of checking on alternate locations and
presented us with several choices, each of
which has its own conditions. Good work
John!

The March meeting is confirmed as a joint
PUG, EBZUG, and SVSTUG meeting on the 15th
(Sunday at 1:00). A map is hopefully
somewhere in this addition of
TIMELINEZ. Contact Bill Strick
522-3811 for carpooling from his place at
1328 Broadway, Alameda.

West Coast Computer Fair - contact Rick
Link 234-3310 for group rate tickets or
information.

Darwin Thompson brought to our attention
that American Design Components, 62 Joseph
Street, Moonachie, N.J. 07074 is selling a
Timex 1000 clone (model PC8300) for $29.95
and 16K Rampack for $10.00 plus S&H. He
spotted this on page 273 of the March '87
issue of *BYTE*. The unit is described as a
42-key mechanical keyboard with 2K RAM
running a Z80A at 6.5 MHz, sound, and can
be used with TV or monitor.

David Gray has become expert at download-
ing RLE graphic pictures. He is in the
process of writing RLE software for some
other computers (IBM, Apple, Atari, etc.),
anyone interested should contact him at
(415) 754-2054.

I need some more **HELP**. I have been
attempting to connect two computers on the
same desk (each has it own modem) by
pluging a standard phone cord between
them. So far I haven't been able to get
it to work. Does anyone have any
suggestions. (415) 754-5575 or 520
Northbrook Ct. Antioch, CA 94509.

Russ English reported that his car was
broken into during the meeting. It would
be wise for all of us not to leave any
valuables in our cars during the meetings.

* * * * * * * *
COMPUTER CALENDAR
* * * * * * * *

M A R C H
---

15 J O I N T   M E E T I N G
    A L L   U S E R   G R O U P S
    Peninsula Hospital
    Sierra Room (Basement)
    1783 El Camino Real   1:00

21 BAY AREA COMPUTER SWAP
    Cow Palace
    San Francisco 10 a.m. - 5 p.m.

26- 12th WEST COAST COMPUTER FAIRE
 29 Moscone Center
    San Francisco

28 COMPUTER SWAP AMERICA
    Marie Campbell Pavilion
    Santa Clara County Fairgrounds
    San Jose   10 a.m. - 6 p.m.

A P R I L
---

16 EAST BAY USER GROUP   7:30
    (3rd Thursday)

19 PENINSULA USER GROUP   1:00

19 SILICON VALLEY USER GROUP 1:00
    (with PUG)

**** USER GROUP IN SACRAMENTO ****

G U T S GROUP USING TIMEX SINCLAIR
========

CONTACT: JAMES GRIFFIS
         (916) 783-0919

MEETINGS: SECOND WEDNESDAY OF EACH MONTH, 7:00 P.M.
          SMUD BUILDING
          59th STREET (between Folsom and S)
          SACRAMENTO

E B Z U G   EAST BAY Z80 USER GROUP
=========   3128 KING STREET
            BERKELEY, CALIFORNIA 94703
               (Woody McPheeter's)

CONTACT: RUSS ENGLISH (415) 465-3116

MEETINGS: FOURTH THURSDAY OF EACH MONTH, 7:30 P.M.
          WEST BRANCH LIBRARY
          1125 UNIVERSITY AVENUE, BERKELEY

MAKE CHECK FOR DUES PAYABLE TO "WOODY McPHEETERS".

P U G   PENINSULA USER GROUP
=====   311 MICHELLE LANE
        DALY CITY, CALIFORNIA 94015
        (415) 878-1773

PRESIDENT: GEORGE MOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.
          PENINSULA HOSPITAL
          1783 EL CAMINO REAL, BURLINGAME

MAIL DUES TO "PAT MORRISSEY", 2000 CRYSTAL SPRINGS ROAD,
            BLDG 21, APT 22, SAN BRUNO, CA 94066

S V S T U G   SILICON VALLEY SINCLAIR TECHNOLOGY USER GROUP
===========   6675 CLIFFORD DRIVE
              CUPERTINO, CALIFORNIA 95014
              (408) 253-3175

PRESIDENT: RITA CARR, (408) 738-2088, X-4579

MEETINGS: LAST TUESDAY OF EACH MONTH, 7:00 P.M.
          (FOR LOCATION OF MEETINGS, SEE ACCOMPANYING
          CALENDAR AND SVSTUG NEWS.)

MAKE CHECK FOR DUES PAYABLE TO "SINCLINK".

THIS TIMELINEZ NEWSLETTER IS A JOINT PUBLICATION OF THE THREE
TIMEX-SINCLAIR USER GROUPS IN THE SAN FRANCISCO BAY AREA.

NEW MEMBERS AND VISITORS ARE ALWAYS WELCOME.

FOR FULL MEMBERSHIP (WHICH INCLUDES PARTICIPATION IN GROUP
MEETINGS, THE TIMELINEZ NEWSLETTER, TAPE LIBRARY PRIVILEGES,
AND SPECIAL EVENTS), SEND $15 ANNUAL DUES TO ONE OF THE ABOVE
ADDRESSES WITH THE CHECK MADE PAYABLE AS INDICATED.

FOR JUST AN ANNUAL SUBSCRIPTION TO THE NEWSLETTER, SEND A $10
CHECK TO ONE OF THE ABOVE GROUPS.

```
300     LET last_s = last_s +1
310     IF y>31 THEN LET start_s
= start_s +1
320   NEXT y
330   AT 4,0: PRINT "  "
340 NEXT x
350 END REPeat loop
360 DEFine PROCedure f_key
370   SELect ON key
380     ON key = 2
390       set_screen2
400       get_string
410       set_screen1
420     ON key = 8
430       clear_data
440       set_screen2
450       get_all
460     ON key = 16
470       set_screen2
480       EXIT loop
490       set_screen1
500       STOP
510   END SELect
520 END DEFine f_key
530 DEFine PROCedure set_screen1
540   MODE 8 : WINDOW 512,256,0,0
550   PAPER 0 : INK 4 : CLS
560   CSIZE 3,1
570   STRIP 1 : AT 2,0: PRINT "
"
580   STRIP 1 : AT 6,0: PRINT "
"
590   STRIP 4 : AT 1,0: PRINT "
"
600   STRIP 4 : AT 7,0: PRINT "
"
610   STRIP 3 : AT 0,0: PRINT "
"
620   STRIP 3 : AT 8,0: PRINT "
"
630     STRIP 0
640 END DEFine set_screen1
650 DEFine PROCedure set_screen2
660   MODE 4 : CSIZE 0,0
670   CLS
680 END DEFine set_screen2
690 DEFine PROCedure clear_data
700   FOR x = 1 TO 10
710     a$(x) = " "
720   NEXT x
730 END DEFine clear_data
740 DEFine PROCedure get_string
750     PRINT "Enter String Number
to Re-enter "
760     INPUT x
770     PRINT : PRINT "Enter New
String Message "
780     INPUT x$
790     LET a$(x) = x$
800     PRINT : PRINT "Do You Want
To Do Another? (Y/N)"
810     INPUT x$
820     IF x$="y" OR x$="Y" THEN
GO TO 750
830     CLS
840 END DEFine get_string
850 DEFine PROCedure get_all
860   PRINT "How Many Message
Strings Do You Want To Enter?"
870   INPUT y
880   PRINT
890   FOR x = 1 TO y
900     PRINT "Enter String
Number #";x
910     INPUT x$
920     LET a$(x) = x$
930     PRINT
940   NEXT x
950 END DEFine get_all
```